

PRE-FILL SPRAY

SECTION 1: Mixture identification and manufacturer/supplier identification

Product identification

Product name: PRE-FILL SPRAY

UFI: KX80-KOR4-W00T-MQC7

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant data available.

The use of the substance / preparation: Coating spray

1.3 Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

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Person responsible for the material safety data sheet:

ranal@ranal.pl

1.4. Emergency telephone

+48 34 329 45 03 (8.00 -15.00)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) no 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS05 caustic effect

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Label elements:

Labelling in accordance with Regulation (EC) no 1272/2008

The product is classified and labelled in accordance with CLP regulation.

Hazard pictograms:



GHS02 GHS05 GHS07

Signal word: Danger.

Hazard-determining components of labelling:

butan-1-ol

acetone

butyl acetate

Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

PRE-FILL SPRAY

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P260 Do not inhale spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P403 Store in a well ventilated place.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2 Mixtures

Description: Mixture of biocatalysts with liquid propellant.

Hazardous components:

dimethyl ether
CAS: 115-10-6
EINECS: 204-065-8
Reg. no: 01-2119472128-37
Flam. Gas 1, H220; Press. Gas (Comp.), H280
50-<75%

acetone
CAS: 67-64-1
EINECS: 200-662-2
Reg. no: 01-2119471330-49
Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
25-<50%

butyl acetate
CAS: 123-86-4
EINECS: 204-658-1
Reg. no: 01-2119485493-29
Flam. Liq. 3, H226; STOT SE 3, H336
2.5-<10%

butan-1-ol
CAS: 71-36-3
EINECS: 200-751-6
Reg. no: 01-2119484630-38
Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336
≥ 3-<10%

2-butoxyethanol
CAS: 111-76-2
EINECS: 203-905-0
Reg. no: 01-2119475108-36
Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319
1-<2.5%

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Supply fresh air, consult a doctor if symptoms occur.

After contact with skin: Generally the product does not irritate skin.

After contact with eye: Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor.

After ingestion: Do not induce vomiting and call a doctor.

4.2 Most important symptoms both acute and delayed

No further relevant data available.

4.3 Indications of any immediate medical attention and special treatment needed

No further relevant data available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Useful extinguishing agents:

Water mist. Extinguishing powder. Carbon dioxide. Foam resistant to alcohol.

Extinguishing media unsuitable for safety reasons:

Full jet of water.

5.2 Special hazards arising from the substance or mixture

No further relevant data available.

5.3 Advice for firefighters

Special protective equipment:

Wear respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency measures

Wear protective clothing. Move unsecured persons to a safe place.

6.2 Environmental precautions

Prevent leakage to the sewage system or water reservoirs. Inform competent authorities in case of seepage into water reservoir or the sewage system. Prevent leakage to the sewage system / surface water / ground water.

6.3 Methods and materials for containment and cleaning up

Ensure sufficient ventilation.

Do not wash with water or water based cleaning agents.

6.4 Reference to other sections

Information on safe handling - see section 7. Information on personal protective measures - see section 8. Information on disposal - see section 13.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace.

Information about protection against fire and explosion:

Do not spray towards flames or glowing objects. Keep away ignition sources - do not smoke. Take precaution measures against electrostatic discharge. Attention: Pressurized container. Protect against sun rays and temperatures above 50 ° C. Also after use, do not open violently and do not burn.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and tanks:

Keep cool. Observe the regulations governing storage of pressurized gas tanks.

Information on common storage:

Observe the regulations governing storage of pressurized gas tanks.

Further information on storage conditions:

Store in well-sealed tanks in a cool and dry place. Protect against heat and direct sunlight.

7.3 Special end use(s)

No further relevant data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

Additional tips for the implementation of technical devices:

No further data, see section 7.

8.1 Control parameters

Components with controlled limit values depending on the workplace:

115-10-6 dimethyl ether

MPC: 1000 mg/m³

67-64-1 acetone

MPIC: 1800 mg/m³

MPC: 600 mg/m³

123-86-4 butyl acetate

MPIC: 720 mg/m³

MPC: 240 mg/m³

71-36-3 butan-1-ol

MPIC: 150 mg/m³

MPC: 50 mg/m³

skin

111-76-2 2-butoxyethanol

MPIC: 200 mg/m³

MPC: 98 mg/m³

skin

DNEL value

67-64-1 acetone

Oral	DNEL Long term-systemic	62 mg/kg bw/day	(Consumer)
Skin	DNEL Long term-systemic	62 mg/kg bw/day	(Consumer)
		186 mg/kg bw/day	
Inhalation	DNEL Acute-local	2.420 mg/m ³	(Worker)
	DNEL Long term-systemic	200 mg/m ³	(Consumer)
		1.210 mg/m ³	(Worker)

123-86-4 butyl acetate

Inhalation	DNEL Acute-local	859.7 mg/m ³	(Consumer)
		960 mg/m ³	(Worker)
	DNEL Acute-local	859.7 mg/m ³	(Consumer)
		960 mg/m ³	(Worker)
	DNEL Long term-systemic	102.34 mg/m ³	(Consumer)
		480 mg/m ³	(Worker)
	DNEL Long term-local	102.34 mg/m ³	(Consumer)
		480 mg/m ³	(Worker)

71-36-3 butan-1-ol

Oral	DNEL Long term-systemic	3.125 mg/kg bw/day	(Worker)
Inhalation	DNEL Long term-local	310 mg/m ³	(Consumer)

Penetration time of the glove material

For continuous contact, it is recommended to use gloves with a tensile strength of not less than 240 minutes, with a penetration time of more than 480 minutes as priority.

For short-term work or protection against splashes, we recommend the same. We understand that gloves that offer this level of protection may not be in stock. In this case, a shorter breakthrough time is acceptable as long as the procedures governing maintenance and timely replacement are followed.

The thickness of a glove is not a good measure of a glove's resistance to chemicals, as it depends on the exact composition of the glove material.

The exact break through time has to be specified by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Protective glasses (EN-166)
Tightly sealed protective glasses.

Body protection:

Use protective clothing (EN-13034/6).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information

Appearance:

Form: Aerosol

Colour: According to product name

Odour: Characteristic

Odour threshold: Not specified.

pH value: Not specified.

Change of state:

Melting/freezing point: Not specified.

Initial boiling point and boiling range: -24.9 °C

Flash point: -42 °C

Flammability (solid, gas): Not applicable.

Combustion temperature: 235 °C

Autoignition point: The product is not self-igniting.

Explosive properties: The product is not explosive, but formation of explosive air / vapour mixtures is possible. Not specified.

Explosion limits:

Bottom: 1.1 Vol %

Top: 18.6 Vol %

Vapour pressure at 20 °C: 5.200 hPa Not specified.

Density at 20°C: 0.722 g/cm³

Relative density: Not specified.

Vapour density: Not specified.

Evaporation rate: Not applicable.

Solubility in/miscibility with

Water: Not miscible or poorly miscible.

n-octanol/water partition coefficient: Not specified.

Viscosity:

Dynamic: Not specified.

Kinetic: Not specified.

Solvent content:

Organic solvents: 100.0 %

9.2 Other information

No further relevant data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No further relevant data available.

10.2 Chemical stability

Thermal decomposition/conditions to be avoided:

No decomposition if used for the intended purpose.

10.3 Possibility of hazardous reactions

Hazardous reactions unknown.

10.4 Conditions to be avoided

No further relevant data available.

10.5 Incompatible materials

No further relevant data available.

10.6 Hazardous decomposition products

Hazardous decomposition products unknown.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

Relevant classified LD/LC50 values:

67-64-1 acetone

Oral LD50 5.800 mg/kg (rat)
Skin LD50 7.800 mg/kg (rbt)
Inhalation LC50/4h >20 mg/l (rat)

123-86-4 butyl acetate

Oral LD50 10.760 mg/kg (rat)
Skin LD50 > 14.000 mg/kg (rabbit)
Inhalation LC50/ 4 >20 mg/l (rat)

71-36-3 butan-1-ol

Oral LD50 2.292 mg/kg (rat)
Skin LD50 3.430 mg/kg (rbt)
Inhalation LC50/ 4 >17.76 mg/l (rat)

111-76-2 2-butoxyethanol

Oral LD50 300 mg/kg (rabbit)
470 mg/kg (rat)
Skin LD50 2.000 mg/kg (rabbit)

Primary irritating effect: Effect Type Method:

Caustic/irritating effect on skin

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Allergic effects on respiratory tract or skin

Based on available data, the classification criteria are not met.

Carcinogenicity, mutagenicity and toxic effect on reproduction (CMR)

Mutagenic effect on germ cells:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Toxic effect on reproduction:

Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

67-64-1 acetone

EC50 8.800 mg/l (Dm)
8.300 mg/l (Fish)

123-86-4 butyl acetate

LC50/96h 18 mg/l (Fish)
EC50/48h 44 mg/l (Dm)

71-36-3 butan-1-ol

NOEC (21 days) 4,1 mg/l (Dm)
LC50/96h 1.376 mg/l (Pimephales promelas)
EC50/48h 1.328 mg/l (Dm)
EC50 225 mg/l (Senastrum capricornatum (72 h))

111-76-2 2-butoxyethanol

LC50 1.490 mg/l (Lepomis macrochirus (96 h))

12.2 Persistence and degradability

No further relevant data available.

12.3 Bioaccumulative potential

No further relevant data available.

12.4 Mobility in soil

No further relevant data available.

Further ecological information:

General information:

Water hazard class 1 (self-assessment): slightly hazardous to water.
Do not allow undiluted product or in large quantities to reach groundwater, surface water or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other hazardous effects

No further relevant data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:

It must not be disposed of together with household garbage. Do not let the product enter the sewage system.

Uncleaned packaging:

Recommendation: Dispose of in accordance with applicable regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR, ADN, IMDG, IATA UN1950

14.2 UN proper shipping name

ADR, ADN UN1950 AEROSOLS

IMDG AEROSOLS

IATA AEROSOLS, flammable

14.3 Transport hazard class (es)

ADR

Class 2 5F gases

Label 2.1

ADN

ADN/R class: 2 5F

IMDG, IATA

Class 2.1

Label 2.1

14.4 Packaging group

ADR, IMDG, IATA void

14.5 Environmental hazards

Marine pollutants: No

14.6 Special precautions for users

Attention: gases

Kemler's Code: -

EMS number: F-D,S-U

Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a Capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code

Not applicable.

Transport/further information:

ADR

Excepted quantity (EQ) Code: E0

Not permitted as Excepted quantity

Tunnel restriction code D

IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation": UN 1950 AEROSOLS, 2.1

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislations specific for the substance or mixture 2012/18/UE

Named dangerous substances - ANNEX I None of the components is listed

Seveso Category P3a AEROSOLS FLAMMABLE

Qualifying quantity (tonnes) for the application of lower tier requirements 150 t

Qualifying quantity (tonnes) for the application of upper tier requirements 500 t

Regulation (EC) No 1907/2006 ANNEX XVII Conditions for restriction: 3

National regulation:

Class share %

NK 100

VOC-CH 100,00 %

VOC-EU 722,0 g/l

Danish MAL Code 4-3

15.2 Chemical safety assessment

Chemical Safety Assessment has not been performed.

SECTION 16: OTHER INFORMATION

The data is based on the present state of our knowledge, however, it does not define the production characteristics in a definitive way and cannot be used as a justification for legally valid contracts.

Relevant phrases:

H220 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Department issuing the data list: Research & Development

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Agreement on Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labelling concerning inhalation hazards, Denmark)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases- Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Pressurized gases - compressed gas

Flam. Liq. 2: Flammable liquids- Category 2

Flam. Liq. 3: Flammable liquids- Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Caustic/irritating effect on skin- Category 2

Eye Dam. 1: Serious eye damage/eye irritation- Category 1

Eye Irrit. 2: Serious eye damage/eye irritation- Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Changes compared to the previous version: sections 1.1, 16.

Sheet number: 07-1N6L-1220-V2